

Integrated Energy Policy Report Workshop on Transportation

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March 27, 2014

Governor Brown on Climate Change

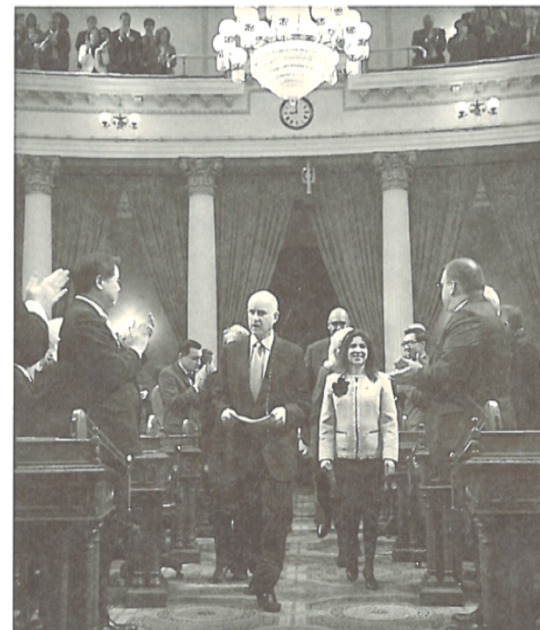
“When we think about California’s future, no long term liability presents as great a danger to our wellbeing as the **buildup of carbon dioxide and other greenhouse gases in the atmosphere.**”

*State of the State Address
January 24, 2013*



Office of Governor
Edmund G. Brown Jr.

State of the State Address
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Governor Brown on Climate Change

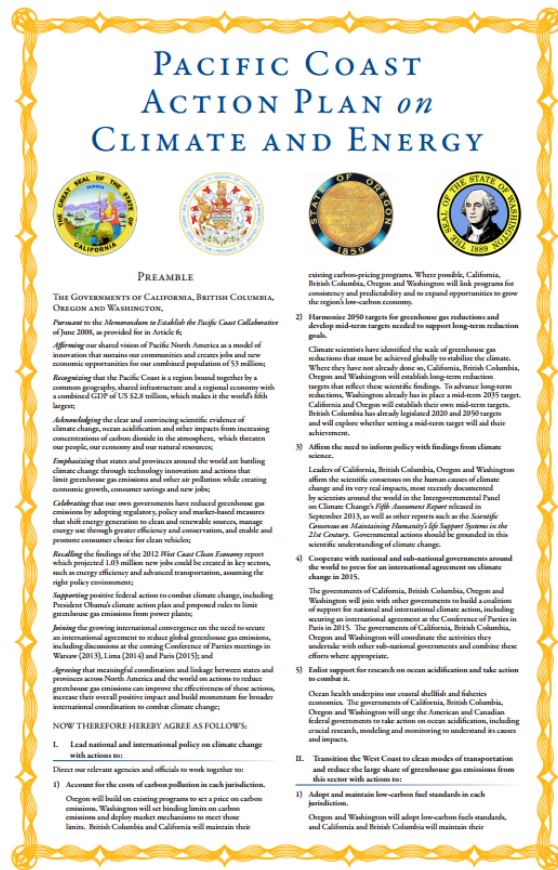
“...you are witnessing an historic, small but powerful first step and it’s only the beginning.... this will spread until finally we get a real handle and grasp on what is **the world’s greatest existential challenge-that is, the stability of our climate on which we all depend.**”

*Pacific Coast Climate Event
October 28, 2013*



Climate Partnerships

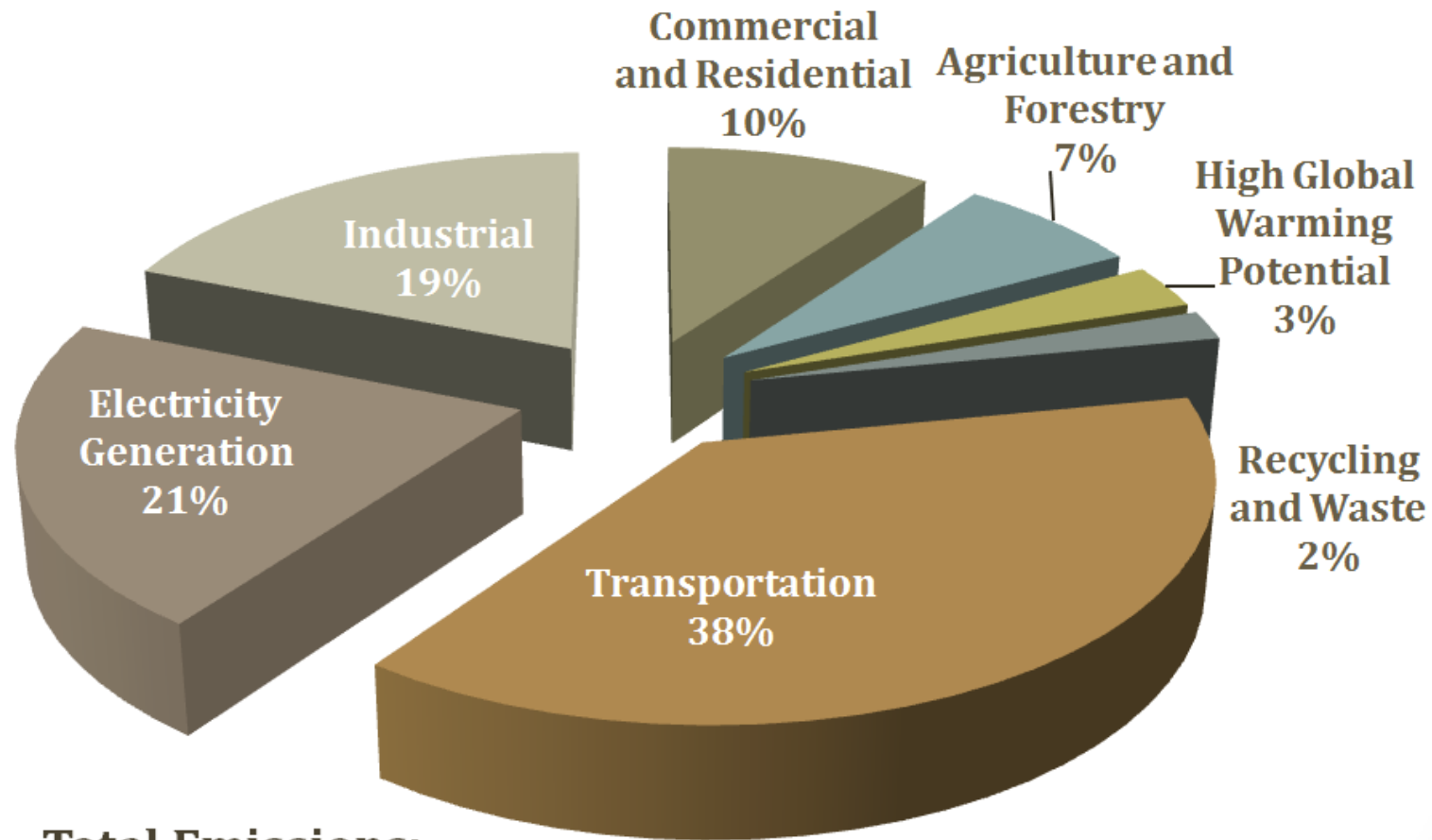
OR, WA & British Columbia



National Government of China

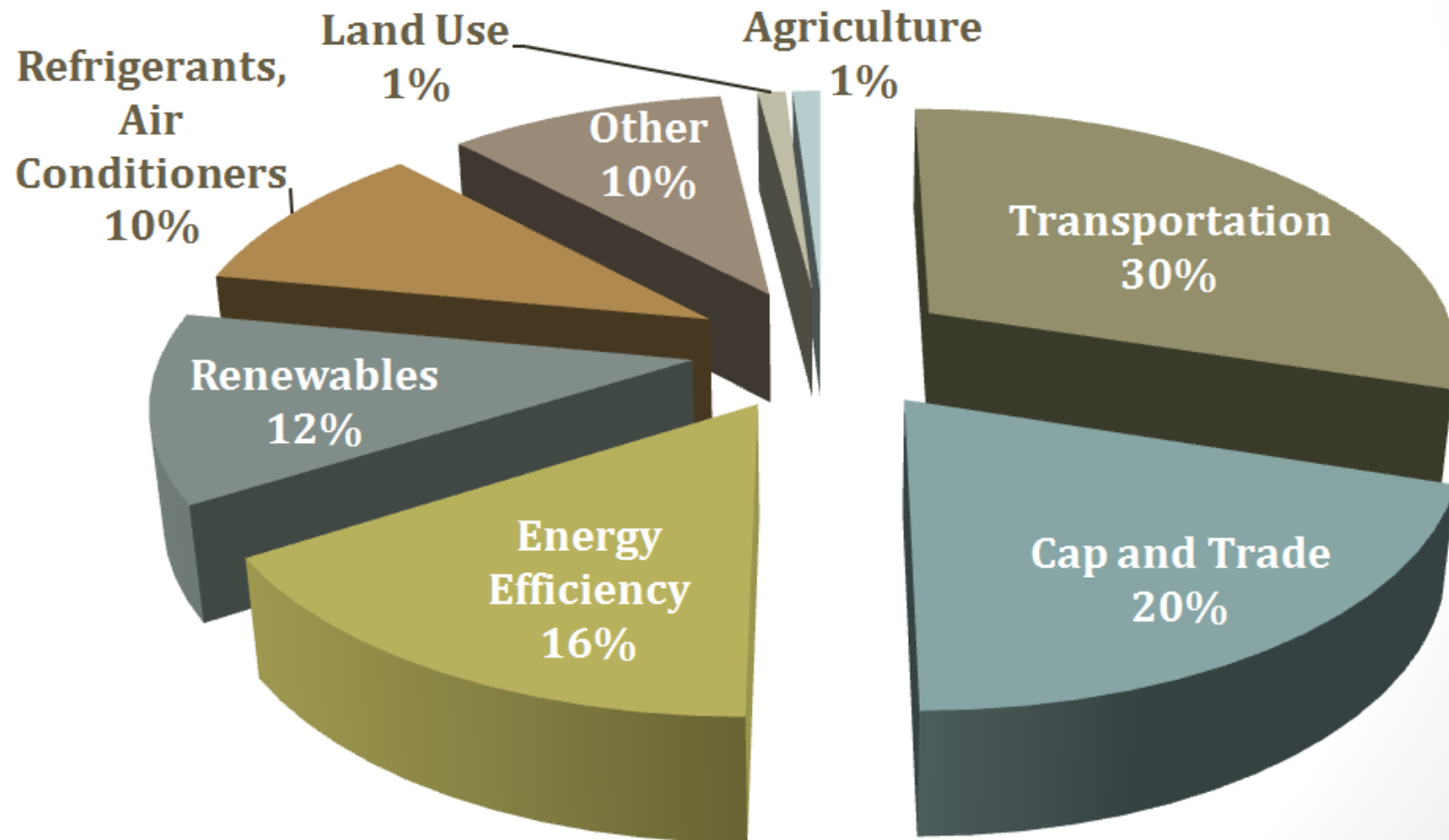


California 2010 Emissions



**Total Emissions:
452 MMTCO₂E**

AB 32 Scoping Plan



Governor's ZEV Executive Order -2050 Goal

- Greenhouse gas emissions due to transportation are 80% less than 1990 levels



COURTESY: NISSAN MOTOR COMPANY

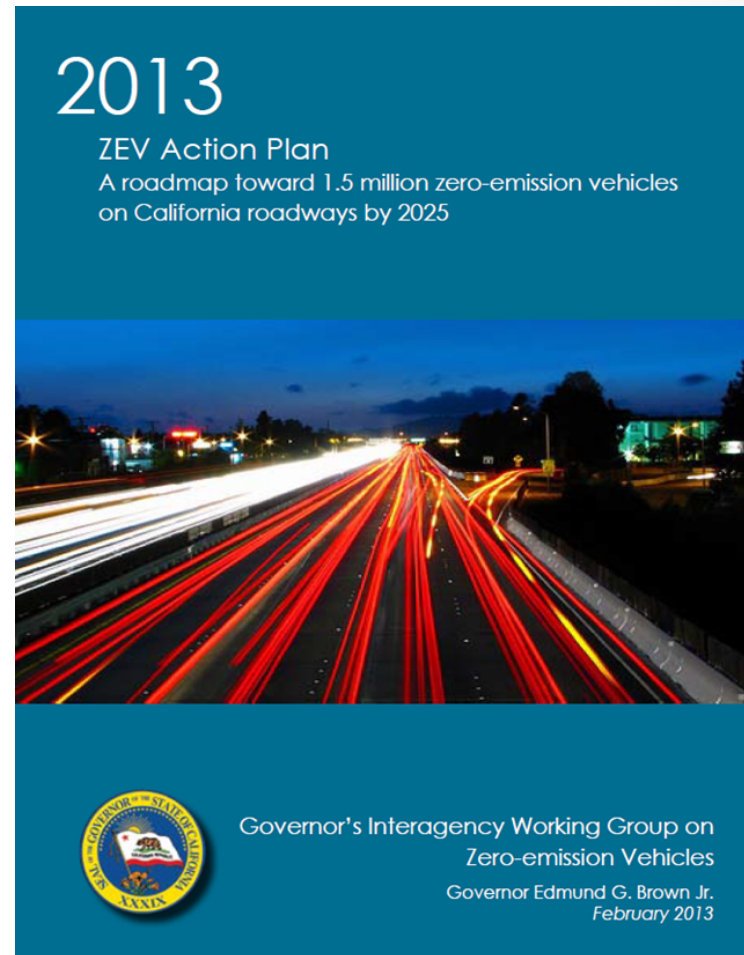
Transportation Policies: Comprehensive Approach

- Advanced Clean Cars
- Low Carbon Fuel Standard
- SB 375
- High-speed rail
- Port electrification
- Zero-Emission Vehicles



ZEV Executive Order & Action Plan

- Goal of 1.5 million ZEVs by 2025
- Complete needed infrastructure and planning
- Expand consumer awareness and demand
- Transform fleets—10% by 2015; 25% by 2020
- Grow jobs and investment in the sector



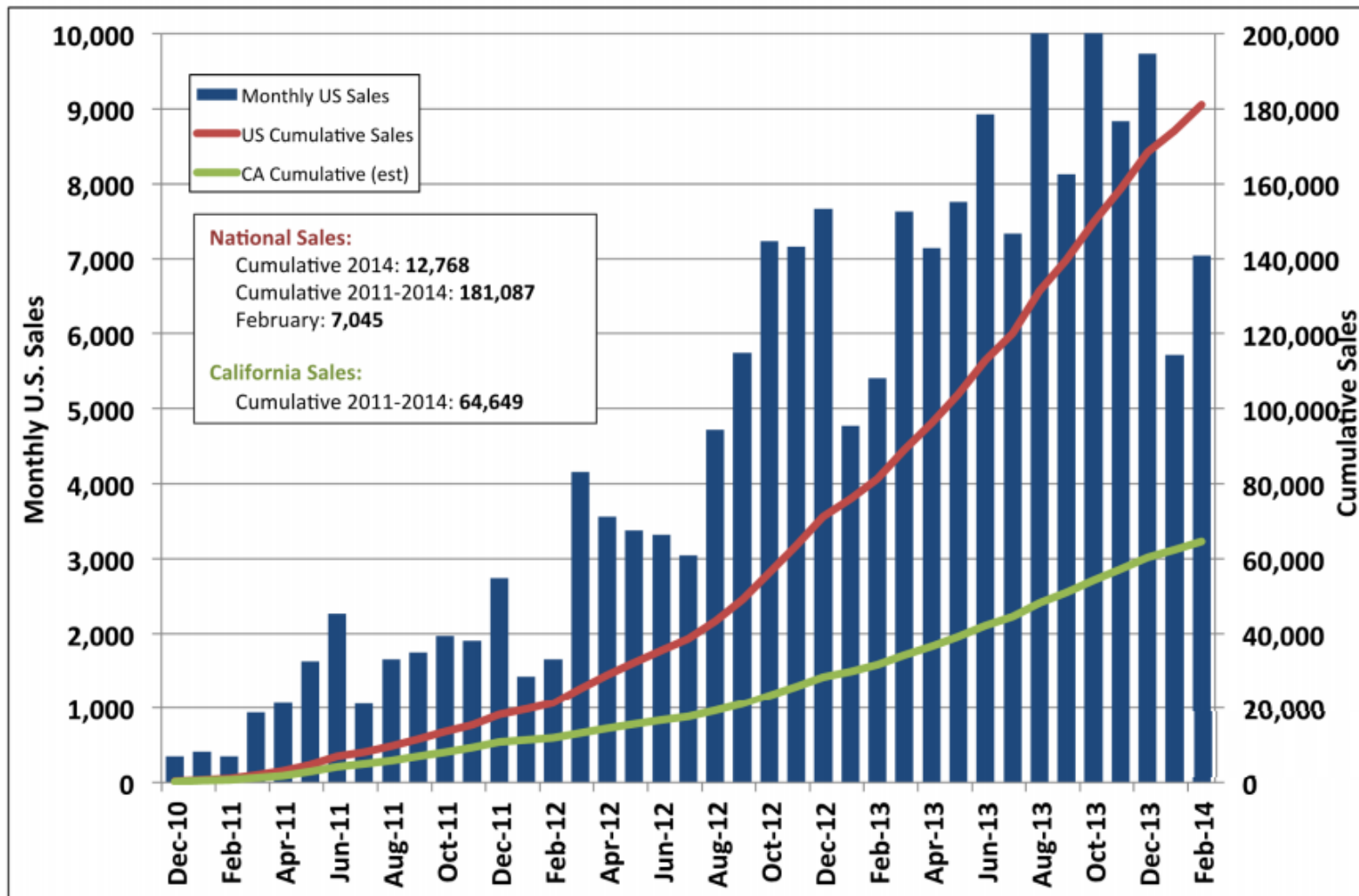
Multi-State ZEV MOU (2013)

- Governors of 8 states: California, Connecticut, Maryland, Massachusetts, New York, Oregon, Rhode Island, Vermont
- 3.3 million ZEVs on the road by 2025



State Zero-Emission Vehicle Programs
Memorandum of Understanding

ZEV Sales – February 2014



Source: California Plug-In Electric Vehicle Collaborative, 2014.

ZEV Plan – Milestones Achieved

- Reauthorization of AB 118
- Open access to charging stations & network/roaming interoperability
- Building codes being updated to be ZEV ready
- Guidance documents –
 - OPR guidebook for local communities
 - DGS guidance for charging infrastructure
- HOV decals distributed by car dealers
- V2G roadmap
- PACE financing for charging stations
- Ombudsman in GO-Biz for hydrogen fueling stations & ZEV infrastructure

ZEV Plan – Ongoing Challenges

- Raise consumer awareness & demand
 - Reduce upfront purchase costs
- Increase access for low & middle income consumers
- Pilot for financing charging stations
- Grow medium-duty and heavy-duty fleets
- Support hydrogen development & help build network of hydrogen fueling stations

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